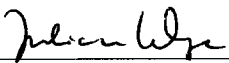


I hereby certify that, on the date shown below, this correspondence is being transmitted via the Patent Electronic Filing System (EFS) addressed to Examiner Marvich at the United States Patent and Trademark Office.

Date of Signature and Deposit: August 20, 2010


Julia vom Wege, Reg. No. 64,920

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Thomas P. Zwaka
James A. Thomson

Date: August 20, 2010

Serial No.: 10/774,122

Group Art Unit: 1633

Filed: February 6, 2004

Examiner: Maria Marvich

Title: DIRECTED GENETIC MODIFICATIONS
OF HUMAN STEM CELLS

Confirmation No.: 8384

File No.: 960296.99021

RESPONSE TO FINAL OFFICE ACTION

Mail Stop AF
Commissioner for Patents
P O Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to a final Office Action mailed April 20, 2010, please enter the following response:

Listing of Claims begins on page 2 of this paper.

Remarks begin on page 6 of this paper.